INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

International application No.

PCT/JP2006/300989

	ARCHED	
	nentation searched (classification system followed by classification symbols) (2006.01), B23K9/133(2006.01), B25J19/00(2006.01)	
Jitsuyo	searched other than minimum documentation to the extent that such documents are included in Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho itsuyo Shinan Koho 1971-2006 Toroku Jitsuyo Shinan Koho	the fields searched 1996-2006 1994-2006
	base consulted during the international search (name of data base and, where practicable, search .	n terms used)
	NTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 188569/1986(Laid-open No. 95674/1988) (Kawasaki Steel Corp.), 20 June, 1988 (20.06.88), Page 7, line 9 to page 8, line 9; Figs. 1 to 2 (Family: none)	1-2,6-7 3-5,8
X A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 33706/1993 (Laid-open No. 86868/1994) (Daihen Corp.), 20 December, 1994 (20.12.94), Fig. 2 (Family: none)	1-2,6-7 3-5,8

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive earlier application or patent but published on or after the international filing "X" date step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 13 April, 2006 (13.04.06) 25 April, 2006 (25.04.06) Name and mailing address of the ISA/ Authorized officer Japanese Patent Office Telephone No. Facsimile No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2006/300989

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X A	JP 8-57648 A (Araco Corp.), 05 March, 1996 (05.03.96), Par. No. [0017]; Figs. 1 to 3 (Family: none)		1-2,5,7 3-4,6,8
P,X P,A	JP 2006-7256 A (Matsushita Electric Inde Co., Ltd.), 12 January, 2006 (12.01.06), Figs. 1 to 2 & WO 2006/001177 A1	ustrial	1-3,5,7 4,6,8
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